Poonam Sharma
Professor & Head
Department of Mathematics and Astronomy
University of Lucknow, Lucknow 226007 INDIA
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1. Qualifications/Awards

(1) Ph.D. 1988 in Mathematics (1988) from University of Lucknow.
(2) Senior Research Fellowship (S.R.F.) of C.S.I.R., New Delhi, India, from Jan. 1986 to July 1988.
(3) Awarded Junior Research Fellowship (J.R.F.) from Jan. 1984 to Dec. 85 on the basis of written test conducted by **C.S.I.R. New Delhi**, India.
(4) Secured **first division** and **first position** in order of merit in M. Sc. Mathematics in 1982 from University of Lucknow, India.

2. Teaching Experience

- More than **thirty one years** experience of teaching in the Department of Mathematics, University of Lucknow, India
- Two years of teaching experience (Jan.1999-Dec.2000) as **Assistant Professor** in the Department of Mathematics, School of Science and College of Continuing Education at Langley Air Force Base and Hampton Harbour, **Hampton University**, Virginia, **USA**

3. Research Publications

3.1. Published papers:

(1) Saurabh Porwal , Poonam Sharma and Omendra Mishra, Convolution Properties of Some Slanted Half-Plane Harmonic Mappings, Southeast Asian Bulletin of Mathematics (2020) 44: 131–142. ISSN 0129-2021
(2) R. K. Raina, P. Sharma and J. Sokół, A class of strongly close-to-convex functions, Bol. Soc. Parana. Mat. (3) **38** (2020), no. 6, 9–24. MR3912242
(3) Saurabh Porwal, Poonam Sharma and Omendra Mishra, Harmonic Multivalent Functions with positive Coefficients, Bulletin of the Allahabad Mathematical Society Vol. 34, Part 2, 2019, 147-158. ISSN, 0971-0493
(4) P. Sharma and O. Mishra, A new class of p-harmonic functions, Ganita **69** (2019), no. 1, 75–85. ISSN 0046-5402
(5) P. Sharma, R. K. Raina and J. Sokół, On various representations of a class of analytic functions associated with subordination, Politehn. Univ. Bucharest Sci. Bull. Ser. A Appl. Math. Phys. **81** (2019), no. 2, 87–96. ISSN 1223-7027
(6) P. Sharma, R. K. Raina and J. Sokół, Certain Ma-Minda type classes of analytic functions associated with the crescent-shaped region, Anal. Math. Phys. **9** (2019), no. 4, 1887–1903. https://doi.org/10.1007/s13324-019-00285-y
(7) Gupta, V. K.; Sharma, P. Wright generalized hypergeometric inequalities of univalent harmonic mappings defined by shearing of analytic functions. Palest. J. Math. 8 (2019), no. 1, 169–183. MR3884312

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(8) Srivastava, H. M.; Sharma, Poonam; Raina, R. K. Inclusion results for certain classes of analytic functions associated with a new fractional differintegral operator. Rev. R. Acad. Cienc. Exactas F■s. Nat. Ser. A Mat. RACSAM 112 (2018), no. 1, 271–292. MR3743003. https://doi.org/10.1007/s13398-017-0377-8, Print ISSN 1578-7303, Online ISSN 1579-1505, Publisher Name Springer Milan

(9) Sharma, Poonam; Raina, Ravinder Krishna; Sokół, Janusz. On a set of close-to-convex functions. Studia Sci. Math. Hungar. 55 (2018), no. 2, 190–202. MR3813350

(10) Gupta, Vimlesh Kumar; Sharma, Poonam. Hypergeometric inequalities for certain unified classes of multivalent harmonic functions. Appl. Appl. Math. 13 (2018), no. 1, 315–332. MR3813463

(11) Poonam Sharma and Omendra Mishra, On the rotation of a linear combination of harmonic univalent functions, GANITA, Vol. 68(2), 2018, 53-61. ISSN 0046-5402

(12) Raina, R. K.; Sharma, P.; Sokól, J. Certain classes of analytic functions related to the crescent-shaped regions. J. Contemp. Math. Anal. 53 (2018), no. 6, 355–362. MR3900220. https://doi.org/10.3103/S1068362318060067

(13) Sharma, Poonam; Bajpai, Aditya K. Certain geometric properties of analytic functions associated with the convolutions. Kragujevac J. Math. 42 (2018), no. 2, 161–175. MR3811337

(14) Sharma, Poonam; Nigam, Ankita. The Fekete-Szeg■ problem for a Ma-Minda type class of bi-univalent functions associated with the Hohlov operator. Asian-Eur. J. Math. 10 (2017), no. 3, 1750052, 15 pp. MR3697254
https://doi.org/10.1142/S1793557117500528

(15) Sharma, Poonam; Maurya, Rajesh Kumar. Region of variability for a class of strongly starlike analytic functions. Ganita 67 (2017), no. 2, 129–139. MR3789330

(16) Sharma, Poonam. Faber polynomial coefficient estimates for a class of analytic bi-univalent functions involving a certain differential operator. Asian-Eur. J. Math. 10 (2017), no. 1, 1750016, 11 pp. MR3627671
DOI: http://dx.doi.org/10.1142/S1793557117500164

(17) Vimlesh Kumar Gupta and Poonam Sharma, Partial Sums for Multivalent Harmonic Maps Defined by Generalized Hypergeometric Functions, International Journal of Mathematics And its Applications Volume 5, Issue 2–A (2017), 27–41. ISSN: 2347-1557 Available Online: http://ijmaa.in/

(18) P. Sharma and Aditya K. Bajpai, Certain Criteria for Univalency of an Integral Operator involving Convolutions, Ganita Vol. 66, 2016, 1-10.

(19) Sharma, Poonam. Coefficient estimates for bi-univalent functions satisfying certain subordinate class condition. ROMAI J. 12 (2016), no. 1, 123–131. MR3601309

(20) Sharma, Poonam; Raina, Ravinder K. On a generalized hypergeometric operator and its mapping structures. Proc. Jangjeon Math. Soc. 19 (2016), no. 3, 545–562. MR3617699

(21) Sharma, Poonam; Raina, R. K.; Sălăgean, G. S. Some geometric properties of analytic functions involving a new fractional operator. Mediterr. J. Math. 13 (2016), no. 6, 4591–4605. MR3564523 doi:10.1007/s00009-016-0764-y

(22) Sharma, Poonam; Bajpai, Aditya K. On some analytic functions associated with the linear operators satisfying certain recurring relations. Asian-Eur. J. Math. 9 (2016), no. 2, 1650040, 13 pp. MR3486728

(23) Raina, R. K.; Sharma, Poonam; Sălăgean, G. S. Some characteristic properties of analytic functions. An. Ştiinţ. Univ. "Ovidius" Constanţa Ser. Mat. 24 (2016), no. 1, 353–369. MR3481538 DOI: 10.1515/auom-2016-0021

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(25) Sharma, Poonam; Bajpai, Aditya K. The convolution of analytic functions involving a parameter. An. Univ. Oradea Fasc. Mat. 23 (2016), no. 1, 87–95. MR3496017

(26) Sharma, Poonam; Ankita. Radius constants for a class of analytic functions associated with a multiplier linear operator. Facta Univ. Ser. Math. Inform. 30 (2015), no. 5, 693–705. MR3434640

(27) Sharma, Poonam; Raina, R. K. On a Sakaguchi type class of analytic functions associated with quasi-subordination. Comment. Math. Univ. St. Pauli 64 (2015), no. 1, 59–70. MR3410121

(28) Raina, Ravinder K.; Sharma, Poonam. On λ-spiral-like functions involving a convolution structure. Facta Univ. Ser. Math. Inform. 30 (2015), no. 3, 325–339. MR3352467

(29) Sharma, P.; Ahuja, Om P.; Gupta, V. K. Univalent harmonic functions with domains convex in horizontal (vertical) directions. Acta Univ. Apulensis Math. Inform. No. 40 (2014), 199–217. MR3316503

(30) Sharma, Poonam; Maurya, Rajesh K. Certain subordination results on the convolution of analytic functions. J. Math. Appl. 37 (2014), 111–118. MR3308178

(31) Sharma, Poonam; Raina, Ravinder Krishna; Sokół, Janusz. Certain subordination results involving a class of operators. An. Univ. Oradea Fasc. Mat. 21 (2014), no. 2, 79–89. MR3308846

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(34) P. Sharma, Ankita and R. K. Raina, Coefficient estimates and Fekete-Szego inequality for a unified class of bi-univalent functions, MATH. SCI. RES. J. 17(11) 2013, 292-299.

(35) Raina, R. K.; Sharma, P. On a generalized Ma-Minda type class of multivalent meromorphic functions. Proc. Jangjeon Math. Soc. 16 (2013), no. 4, 489–502. MR3136929 (ISSN: 15987264)

(36) P. Sharma and V.K. Gupta, Starlikeness of the p-valent Gauss hypergeometric functions, Jnanabha, 43 (2013), 1-12.

(37) Prachi Srivastava, Poonam Sharma, Certain subordinations associated with a convolution operator involving a parameter, South Asian J. Math, 2013, 3(5), 353-360. http://www.sajm.com.nu (ISSN 2251-1512)

(38) Mamta Pathak, Poonam Sharma, Some sufficient conditions for repeated Erd´elyi-Kober fractional integral operator, South Asian J. Math, 2013, 3(4), 264-271. ISSN 2251-1512

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(40) Mamta Pathak and **Poonam Sharma**, A family of p-valent analytic functions defined by a fractional calculus operator, International Journal of Pure and Applied Mathematics, 87 (1) (2013), (H Index: 7)129-143. ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) http://www.ijpam.eu/contents/2013-87-1/7/

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(46) **Poonam Sharma** and V.K. Gupta, A Class of Multivalent Harmonic Functions with respect to k-Symmetric Points, **Elixir Appl. Math., 55**C (2013), 12947-12953. ISSN 2229-712X
http://www.elixirjournal.org/articles_view_detail.php?id=3159&mode=pdf

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(50) **Poonam Sharma**, A Goodman-Rønning type class of harmonic univalent functions involving convolutional operators, **Int. J. Math. Arch.**, **3** (3), (2012), 1211-1221. http://www.ijma.info/index.php/ijma/article/view/1089

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(67) **Poonam Sharma** and Amit K. Yadav, A subclass of multivalent meromorphic harmonic functions defined by an operator, **Int. J. Math. Res**., **2** (1), (2010), 13-26. ISSN 0976-5840, http://irphouse.com/ijmr/ijmrv2n1_02.pdf

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http://www.mat.uab.es/pubmat/volums

4. **Collaborative research work with following**

(1) Professor Om P. Ahuja, Department of Mathematical Sciences, Kent State University, Burton, OH 44021-9500, USA, E-mail: oahuja@kent.edu

(2) Professor P.K. Jain, (Retd.) Department of Mathematics, University of Delhi, Delhi 110007 INDIA, E-mail: pawankrjain@yahoo.com

(3) Professor R.K. Raina, (Retd.) M.P. University of Agriculture and Technology, Udaipur 313001, Rajasthan, INDIA, E-mail: rkraina_7@hotmail.com

(4) Professor J.K. Prajapat, Central University of Rajasthan, Kishangarh, Ajmer, Rajasthan, E-mail: jkp_0007@rediffmail.com

(5) Professor Janusz Sokół, Department of Mathematics, Rzeszów University of Technology, al. Powstańców Warszawy 12, 35-959 Rzeszów, POLAND, E-mail: jsokol@prz.edu.pl

(6) Professor G.S. Salagean, Department of Mathematics, Faculty of Mathematics and Computer Science, Babes-Bolyai University, Str. M. Kogalniceanu Nr. 1, 400084 Cluj-Napoca, Romania E-mail: salagean@math.ubbcluj.ro

(7) Prof. H.M. Srivastava, Professor Emeritus, Department of Mathematics and Statistics, Universtity of Victoria, E-mail: Canada harimsri@math.uvic.ca

5. **Research Work Supervised and awarded Ph.D.**

(1) *A Study On Harmonic and Multi-Harmonic Mappings*, Omendra Mishra (2019).

(2) *Some Applications of Subordination in Geometric Function Theory*, Mr. Rajesh Kumar Maurya (2018)

(3) *A Study of Univalent and Multivalent Analytic Functions Involving Linear Operator,* Ms. Ankita (2018)

(4) *A Study of Analytic Functions involving convolution operators*, Mr. Aditya Kishore Bajpai (2016)

(5) *Involvement of Hypergeometric Functions in The Harmonic Function Theory,* Mr.Vimlesh Kumar Gupta (2015)

(6) *A Study on Some Classes of Univalent and Multivalent Analytic Functions*, Ms. Prachi Srivastava (**2011**)

(7) *A Study on Some Families of Harmonic Meromorphic Functions*, Mr. Amit Kumar Yadav (**2011**)

(8) *A Study on Some Families of Analytic Functions defined in the unit disk*, Ms. Mamta Pathak (**2011**)

(9) *Study on Some Classes of Multivalent Meromorphic Functions*, Mr. Manoj Kumar Misra (**2011**)

(10) *Study on Complex Valued Harmonic Functions*, Ms. Noohi Khan (**2009**)

(11) *A Study on Some Classes of Analytic Functions*, Mr. Jitendra Awasthi (**2008**)

(12) *A Study on Some Classes of Analytic Functions Associated with Ruscheweyh Derivatives*, Mr. Surendra Bahadur Singh (**2007**)

(13) *A Study on Some Classes of Meromorphic Functions*, Ms. Deepali Chowdhary (**2007**)

6. **Research Students Under Supervision for Ph.D.**

- Mr. Vivek Kumar Yadav
- Ms. Harshita Bhardwaj

7. **Delivered talks / Paper Presentations / Conferences attended / Seminars**

- The joint paper *Some characteristic properties of analytic functions* was presented by co-author Grigore Stefan Salagean (Babes-Bolyai University, Romania) in the **5th International Conference on Mathematics and Informatics, September 2-4, 2015**, Târgu Mureş /Marosvásárhely, **Romania**, http://mitis.ro/matinfo/2015/ (http://mitis.ro/matinfo/2015/abstracts/74-Salagean_Grigore%20Stefan.pdf)

- The joint paper *Some geometric properties of analytic functions involving a new fractional operator* was presented by co-author Grigore Stefan Salagean (Babes-Bolyai University, Romania) in the **ICTAMI- International Conference on Theory and Applications in Mathematics and Informatics, 17 - 20 September 2015, Alba Iulia, Romania**,
http://oeconomica.uab.ro/ictami/upload/74SalageanGrigore.pdf

- Participated in **Indian Science Congress Association-2015**, held at University of Bombay, Mumbai, January 3-7, 2015

- Presentation on Univalent Harmonic Functions with Domains Convex in Horizontal (Vertical) Directions in **Indian Science Congress Association-2014**, held at University of Jammu, Jammu, February 3-7, 2014

- Delivered a series of Lectures in **Advanced Training School for Lecturers** on "Advanced Complex Analysis", 23rd June-13th July 2013 at Central University of Rajasthan, Kishangarh, Ajmer, Rajasthan.

- Delivered a Talk on "An introduction to Univalent Functions" in the Refresher course organised by **Academic Staff College , University of Lucknow**, Jan. 2013.
- Participated an International Conference "**The Legacy of Srinivasa Ramanujan**" organised by University of Delhi, 17-22 December 2012.
- Delivered a Talk on *Coefficient estimates of univalent and bi-univalent functions* in **National Conference on Recent Advances in Mathematics** (NCRAM-2012), Febuary 2-4, 2012, University of Lucknow, India
- Delivered an invited Talk on *Subordination in the theory of univalent functions* in **15th Annual Conference of Vijnana Parishad of India**, organized at DAV College, Kanpur, November 4-6, 2011
- Delivered an invited Talk on *A Study on Certain Harmonic Univalent Mappings Involving Wright's Generalized Hypergeometric (WGH) Functions* in **National Seminar on Recent Advances in Mathematics & its Applications**, organized at Kanpur, February 12, 2011
- Delivered an invited Talk on *Some aspects of Geometric Function Theory* in **7th National Conference on Recent Advances in Mathematical Sciences and its Applications,** organized by Indian Society of Mathematics and Mathematical Sciences (ISMAMS) at Gorakhpur, February 20-21, 2010
- Presentation on *Some Inequalities for Harmonic Univalent Maps Involving Wright Generalized Hypergeometric (Wgh) Functions* in **International Congress of Mathematicians 2010**, held at Hyderabad, India, August 19-27, 2010
- Presentation of joint research paper *Some Characterization Properties of Classes of p-valent Analytic Functions Involving Certain Integral Operator* by Mamta Pathak in **International Congress of Mathematicians 2010**, held in Hyderabad, India, August 19-27, 2010
- Presentation of joint research paper *Certain Generalized Classes of p-valent Analytic Functions Involving Convolution* by Prachi Srivastava in **International Congress of Mathematicians 2010**, held in Hyderabad, India, August 19-27, 2010
- Seminar *On univalent functions,* Department of Mathematics and Astronomy, University of Lucknow, August 2010.
- Participated and Attended Annual Conferences of Bharat Ganita Parishad, Department of Mathematics and Astronomy, University of Lucknow, Lucknow
- Seminar *On the radius of univalent of certain classes of analytic functions*, Department of Mathematics, Hampton University, Hampton, Virginia **USA** Fall 2000.
- Participated conference of **Indian Mathematical Society** held in 2003 at Department of Mathematics and Astronomy, University of Lucknow, Lucknow, India.
- Participated **Indian Science Congress** held in 2002 at University of Lucknow, Lucknow, India.
- Presented a research paper in Annual Conference of Bharat Ganita Parishad held in 1988 at IIT Kanpur, India
- Presented a research paper in **Indian Science Congress** held in 1985 at University of Lucknow, Lucknow India.

8. **Additional Credits /FDPs**

- Earned **12 Credits** in IST (3 each in Web Designing (Summer 1999), Computer Programming "C" (Fall 1999), Computer Programming "C++" (Spring 2000) and

Database Management (Fall 2000)) with the Grade "**A**" in each course from TNCC, VA **USA**

- Participated in three Refresher Courses in Mathematics including one in 2002 with the Grade "**A**" based on the Project (bears the value of one published paper) and Evaluation assignment, ASC University of Lucknow, Lucknow
- Attended two Workshops (Jan. 2000 and March 2000) on Use of Graphic Calculators, School of Science, Hampton University, VA **USA**

9. **Administrative positions held/Memberships**

- Assistant Provost: Kailash Hall, 1988
- Joint Librarian/Librarian : Bharat Ganita Parisad 2004-2012
- Editor Bharat Ganita Parisad
- Life member :
  Bharat Ganita Parisad
  Indian Academy of Mathematics
  National Academy of Mathematics
  Vijñāna Parishad of India
  Indian Mathematical Society
  Indian Science Congress Association
  Indian Society of Mathematics and Mathematical Sciences (Reg. No. 1006, 2002)
- Referee of various national and international mathematical journals:
  (1). Asian-European Journal of Mathematics (AEJM)
  (2). Mathematical Sciences Research Journal
  (3). An. Univ. Oradea, fasc. Mat.
  (4). British Journal of Mathematics & Computer Science

- Co-PI in a DST project "Mathematical Models for Sustainable Management of Natural Renewable Resources" from Jan. 2014-Feb. 2017.
- Reviewer of various Mathematical Journals including Mathematical Reviews of American Mathematical Society

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